

cantilever spring to urge the coupler knuckle to a closed or coupled position, the cantilever spring having a first portion which curves away from the drawbar and a free end which curves back toward the coupler knuckle to apply a tangential force to the coupler knuckle, such that the magnetically-actuated coupler is assembled from three parts and the coupler head containing a pair of stops which limit the movement of the pivotally mounted coupler knuckle.

23. A magnetically-actuated coupler assembly for a model railroad car comprising:

(a) a drawbar with first and second ends, the first end being configured for pivotal mounting within a coupler pocket in the end of a model railroad car;

(b) a coupler head at the second end of the drawbar;

(c) a magnetically-actuated post pivotally secured to the drawbar so as to extend downward from the drawbar;

(d) a coupler knuckle pivotally secured to the second end of the drawbar with the post, the coupler head having a pair of stops which limit the pivotal movement of the coupler knuckle on the drawbar;

(e) a leaf spring being formed as an integral part of the first end of the drawbar and extending from the first end of the drawbar; and

(f) a cantilever spring formed as an integral part of the drawbar, the cantilever spring including a first portion extending from the drawbar proximally the coupler head which curves away from the drawbar and the coupler knuckle and a free end which curves back toward the coupler knuckle sufficiently so as to constantly apply a tangential force against the coupler knuckle and urge the coupler knuckle to a closed or coupled position in all positions of the coupler knuckle between the pair of stops.

24. The magnetically-actuated coupler assembly of claim 23 further comprising the leaf spring secured to the first end of the drawbar extending outward and around the first end of the drawbar to form a C-shape.

25. The magnetically-actuated coupler assembly of claim 23 wherein the outer tip of the coupler knuckle contains a lip which extends inward toward the post.

26. The magnetically-actuated coupler assembly of claim 23 wherein the drawbar includes an extension lip, extending from the drawbar.

27. The magnetically actuated coupler assembly of claim 23 wherein the

coupler knuckle contains a slot, an edge of which interacts with one of the stops of the coupler head to limit the capability of the coupler knuckle to open.

28. The magnetically-actuated coupler knuckle of claim 23 wherein the cantilever spring and the drawbar are molded together as a unitary piece from engineering plastic.

29. A magnetically-actuated coupler assembly for a model railroad car comprising:

a drawbar having a first end adapted to be pivotally mounted within a coupler pocket in the end of a model railroad car and an opposing, second end;

a coupler head formed on the second end of the drawbar;

a leaf spring being formed as an integral part of the first end of the drawbar and extending from the first end of the drawbar;

a cantilever spring formed as an integral part of the drawbar and extending from the drawbar adjacent to the coupler head;

a coupler knuckle pivotally secured to the coupler head;

a magnetically-actuated post pivotally securing the coupler knuckle to the coupler head, the magnetically-actuated post being pivotally connected to and extending at least downwardly from the coupler head, the coupler knuckle being in constant contact with the cantilever spring to urge the coupler knuckle to a closed or coupled position, the cantilever spring having a first portion which curves away from the drawbar and a free end which curves back toward the coupler knuckle to apply a tangential force to the coupler knuckle, such that the magnetically-actuated coupler is assembled from three parts; and

the coupler head containing a pair of stops which limit the movement of the pivotally mounted coupler knuckle.

30. The magnetically-actuated coupler assembly of claim 29 further comprising the leaf spring secured to the first end of the drawbar extending outward and around the first end of the drawbar to form a C-shape.

31. The magnetically-actuated coupler assembly of claim 29 wherein the outer tip of the coupler knuckle contains a lip which extends inward toward the post.

32. The magnetically-actuated coupler assembly of claim 29 wherein the drawbar includes an extension lip, extending from the drawbar.